

WOODS MANURE FORK & GRAPPLE FORK

MF6000

MF6600

MF7200

GF3000

52619

Rev. 10/8/2004

WOODS®
Tested. Proven. Unbeatable.

OPERATOR'S MANUAL

TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Woods® dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Product Registration included in the Operator's Manual. Both dealer and customer must sign the registration which certifies that all Dealer Check List items have been completed. The dealer is to return the prepaid postage portion to Woods, give one copy to the customer, and retain one copy. **Failure to complete and return this card does not diminish customer's warranty rights.**

TO THE OWNER:

Read this manual before operating your Woods equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Woods dealer has trained mechanics, genuine Woods service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Woods service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model: _____ **Date of Purchase:** _____

Serial Number: (see Safety Decal section for location) _____

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING**, and **DANGER** are used in conjunction with the Safety-Alert Symbol (a triangle with an exclamation mark) to indicate the degree of hazard for items of personal safety.



This Safety-Alert Symbol indicates a hazard and means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



DANGER

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.



CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

IMPORTANT

Indicates that failure to observe can cause damage to equipment.

NOTE

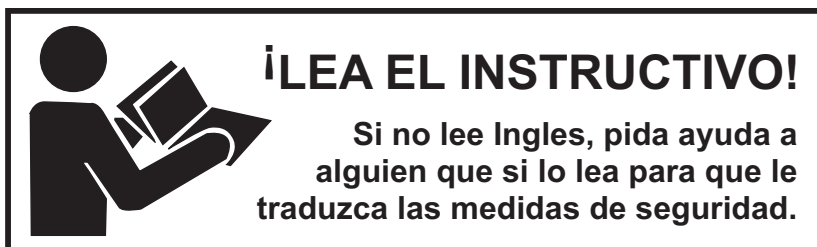
Indicates helpful information.

WOODS®

ALITEC®
ALLOWAY®
BMP®
CENTRAL FABRICATORS®
GANNON®
GILL®
WAIN-ROY®
WOODS®

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GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your manure fork. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but due to possible inline production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.



WARNING

■ Some manual illustrations may show units with safety shields or guards removed to provide better views and/or needed explanations. Units are never to be modified or operated with safety shielding or guards removed.

Throughout this manual, references are made to right and left direction. These are determined by sitting in power unit operator's seat and facing the direction of forward travel.

SPECIFICATIONS

	Manure Fork <u>MF6000</u>	Manure Fork <u>MF6600</u>	Manure Fork <u>MF7200</u>	Grapple Fork <u>GF3000</u>
Weight	300 lbs.	330 lbs.	375 lbs.	137 lbs.
Width	60 inches	66 inches	72 inches	49-1/4 inches
Height	22 inches	22 inches	22 inches	----
No. of Teeth (Std.)	8	9	10	----
No. of Forks	----	----	----	4
Tooth Spacing	8-1/4 inches	8-1/4 inches	8-1/4 inches	----
Fork Spacing	----	----	----	15 inches
Working Length of Teeth	31-1/2 inches	31-1/2 inches	31-1/2 inches	----
Diameter of Teeth	1-1/4 inches	1-1/4 inches	1-1/4 inches	----
Hydraulic Cylinder	----	----	----	one, double acting
Hydraulic Hose Kits	----	----	----	4', 5', or 6' lengths



SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

INSTALLATION

- Hydraulics must be connected as instructed in this manual. Do not substitute parts, modify, or connect in any other way.
- Protective hose sleeves must cover all hydraulic hoses within 20 inches of the operator and be secured onto metal hose fittings. Replace hoses or sleeves if damaged or if protective sleeve cannot be properly positioned or secured.

TRAINING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.
- Know your controls and how to stop engine and attachment quickly in an emergency.
- If you do not understand any part of this manual and need assistance, see your dealer.
- Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other body parts to check for leaks. Wear safety goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.

- Make sure that all operating and service personnel know that if hydraulic fluid penetrates skin, it must be surgically removed as soon as possible by a doctor familiar with this form of injury or gangrene, serious injury, or death will result. **CONTACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.**

- Never allow children or untrained persons to operate equipment.

PREPARATION

- Check that all hardware is properly installed. Always tighten to torque chart specifications unless instructed otherwise in this manual.
- Counterweight ballast may be required for machine stability. Check your power unit manual or contact your dealer.
- Air in hydraulic systems can cause erratic operation and allows loads or equipment components to drop unexpectedly. When connecting equipment or hoses or performing any hydraulic maintenance, purge any air in hydraulic system by operating all hydraulic functions several times. Do this before putting into service or allowing anyone to approach the equipment.
- After connecting hoses, check that all control lever positions function as instructed in the Operator's Manual. Do not put into service until control lever and equipment movements are correct.
- Protective hose sleeves must cover all hydraulic hoses within 20 inches of the operator and be secured onto metal hose fittings. Replace hoses or sleeves if damaged or if protective sleeve cannot be properly positioned or secured.
- Make sure all hydraulic hoses, fittings, and valves are in good condition and not leaking before starting power unit or using equipment. Check and route hoses carefully to prevent damage. Hoses must not be twisted, bent sharply, kinked, frayed, pinched, or come into contact with any moving parts. Operate moveable components through full operational range to check clearances. Replace any damaged hoses immediately.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Be sure attachment is properly secured, adjusted, and in good operating condition. Coupler

SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



lockpins must be fully extended and properly engaged into attachment retaining slots.

■ Power unit must be equipped with ROPS and seat belt/operator restraint. Keep seat belt/operator restraint securely fastened/engaged. Falling off power unit can result in death from being run over or crushed. Keep ROPS systems in place at all times.

■ Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)

■ Make sure shields and guards are properly installed and in good condition. Replace if damaged.

OPERATION

■ Improper operation can cause the machine to tip or roll over and cause injury or death.

- Keep power unit lift arms and attachment as low as possible.
- Do not travel or turn with power unit lift arms and attachment raised.
- Turn only on level ground.
- Go up and down slopes, not across them.
- Keep the heavy end of the machine uphill.
- Do not overload the machine.

■ Never use attachment to carry loads that exceed the rated operating capacity or other specifications of the power unit. Check your power unit manual or see your dealer for rated operating capacity. Exceeding this capacity can cause machine to tip, roll over, or present other hazards that can cause injury or death.

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

■ Only raise load to dump.

- Only raise to required height on firm, level surface.
- Never dump under or around overhead power lines.
- Keep attachment positioned forward so that accidental spillage falls away from operator enclosure.

■ Contact with high voltage, overhead power lines, underground cables, gas lines, and other hazards can cause serious injury or death from electrocution, explosion, or fire.

■ Keep bystanders away from equipment.

■ Do not operate or transport equipment while under the influence of alcohol or drugs.

■ Operate only in daylight or good artificial light.

■ Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.

■ Always comply with all state and local lighting and marking requirements.

■ Do not allow riders. Do not lift or carry anybody on the power unit or attachments.

■ Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt/operator restraint, place transmission in park or neutral, engage brake and ensure all other controls are disengaged before starting power unit engine.

■ Look down and to the rear and make sure area is clear before operating in reverse.

■ Use extreme care when working close to fences, ditches, other obstructions, or on hillsides.

■ Do not operate or transport on steep slopes.

■ Do not stop, start, or change directions suddenly on slopes.

■ Use extreme care and reduce ground speed on slopes and rough terrain.

■ Watch for hidden hazards on the terrain during operation.

■ Stop power unit and implement immediately upon striking an obstruction. Dismount power unit, using proper procedure. Inspect and repair any damage before resuming operation.

■ AVOID INJURY OR DEATH FROM FALLING BALES AND OTHER OBJECTS:

- Do not carry hay bales, logs, fence posts, stones, or any other loose objects that can roll, shift, or fall from a raised bucket and crush operator or bystanders.
- Do not handle round bales unless loader is equipped with approved bale handling attachment.
- Handle raised loads with caution.
- Carry loads low and drive slowly.

■ AVOID INJURY OR DEATH FROM FALLING OBJECTS:

- Do not carry shiftable items. Hay bales, logs, fence posts, stones, and other objects can roll or fall from a raised attachment and crush operator or bystanders.
- This unit is not equipped with any method to prevent objects such as round bales, posts, or logs from rolling back onto operator.
- Do not handle round hay bales.

- Carry loads low and drive slowly.
- Do not carry large objects that can fall out of attachment into operator zone.
- Never lift load higher than necessary to clear the ground when moving.

■ AVOID INJURY OR DEATH FROM FALLING OBJECTS:

- This unit is not equipped with any method to prevent objects such as round bales, posts, or logs from rolling back onto operator.
- Do not carry large objects that can fall out of attachment into operator zone.
- Never lift load higher than necessary to clear the ground when moving.

■ AVOID INJURY OR DEATH FROM FALLING OBJECTS:

- Do not carry or raise loose shiftable loads. Logs, posts, stones, and other objects can roll or become dislodged from bucket.
- Always carry material low to the ground.
- Never lift or carry loads so that dislodged material can fall toward the operator zone.

■ Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.

MAINTENANCE

■ NEVER GO UNDERNEATH EQUIPMENT. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak-down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

- Service work does not require going underneath.
- Read Operator's Manual for service instructions or have service performed by a qualified dealer.

■ Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.

■ Your dealer can supply original equipment hydraulic accessories and repair parts. Substitute parts may not meet original equipment specifications and may be dangerous.

■ Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

■ Be sure attachment is properly secured, adjusted, and in good operating condition. Coupler lockpins must be fully extended and properly engaged into attachment retaining slots.

■ Never perform service or maintenance with engine running.

■ Keep all persons away from operator control area while performing adjustments, service, or maintenance.

■ Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.

■ Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)

■ Make sure shields and guards are properly installed and in good condition. Replace if damaged.

■ Do not disconnect hydraulic lines until all system pressure is relieved. Lower unit to ground, stop engine, and operate all hydraulic control levers.

STORAGE

■ Follow manual instructions for storage.

■ Keep children and bystanders away from storage area.

■ Your dealer can supply original equipment hydraulic accessories and repair parts. Substitute parts may not meet original equipment specifications and may be dangerous.

■ Do not disconnect hydraulic lines until all system pressure is relieved. Lower unit to ground, stop engine, and operate all hydraulic control levers.



SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Replace Immediately If Damaged!

2- Serial Number Plate

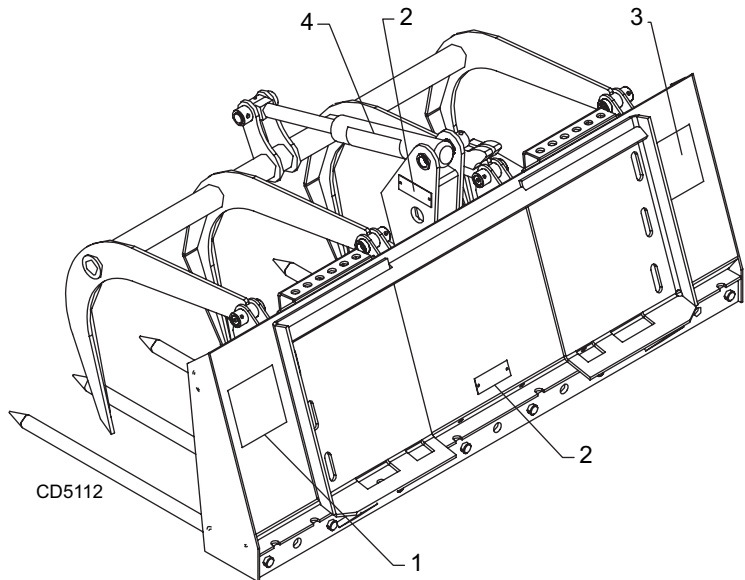


BE CAREFUL!

Use a clean, damp cloth to clean safety decals.

Avoid spraying too close to decals when using a pressure washer; high-pressure water can enter through very small scratches or under edges of decals causing them to peel or come off.

Replacement safety decals can be ordered free from your Woods dealer. To locate your nearest dealer, check the Dealer Locator at www.woodsonline.com, or in the United States and Canada call 1-800-319-6637.



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4 - PN 19924



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WARNING

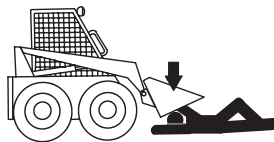
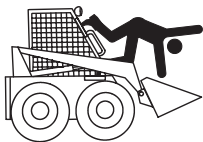
HIGH-PRESSURE HYDRAULIC OIL LEAKS CAN PENETRATE SKIN RESULTING IN SERIOUS INJURY, GANGRENE OR DEATH.

- Check for leaks with cardboard; never use hand.
- Before loosening fittings: lower load, release pressure, and be sure oil is cool.
- Consult physician immediately if skin penetration occurs.

1 - PN 54519



WARNING



FALLING OFF CAN RESULT IN BEING RUN OVER.

- Skid steer must have ROPS and seat belt/operator restraint. Keep seat belt/operator restraint securely fastened.
- Never allow riders.

RAISED EQUIPMENT CAN DROP AND CRUSH.

- Never go under raised equipment or raised skid steer lift arms. They can drop from hydraulic or mechanical failure, or moving control levers.
- Service work does not require going under equipment. Read manual instructions.

FALLING OFF OR GOING UNDER MACHINE CAN RESULT IN SERIOUS INJURY OR DEATH.

54519-B

3 - PN 54518



WARNING

TO AVOID SERIOUS INJURY OR DEATH,

- Read Operator's Manual and Skid Steer Manual before operating, servicing or repairing attachment. Follow all safety rules and instructions. (Manuals are available from dealer or, in the United States and Canada, call 1-800-319-6637.)
- Only operate from Skid Steer seat with seat belt/operator restraint securely fastened.
- Before leaving operator's seat: follow Skid Steer Manual instructions, lower lift arms and attachment to ground, stop engine, remove key, engage brake, remove seat belt/operator restraint.
- Allow no children or untrained persons to operate equipment.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.

54518-A

OPERATION

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

The operator is responsible for the safe operation of this equipment. Operators must be instructed in and be capable of the safe operation of the equipment, its attachments and all controls. Do not allow anyone to operate this equipment without proper instructions.

WARNING

■ **Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.**

■ **Never allow children or untrained persons to operate equipment.**

■ **Power unit must be equipped with ROPS and seat belt/operator restraint. Keep seat belt/operator restraint securely fastened/engaged. Falling off power unit can result in death from being run over or crushed. Keep ROPS systems in place at all times.**

■ **NEVER GO UNDERNEATH EQUIPMENT. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak-down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.**

- Service work does not require going underneath.
- Read Operator's Manual for service instructions

tions or have service performed by a qualified dealer.

■ **Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.**

■ **Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.**

This manure fork fits Bobcat, New Holland, John Deere, Case, and other skid steers equipped with a Bob-tach compatible coupler. Read the skid steer operator's manual for instructions on proper skid steer operation and safety.

The manure fork is designed for carrying and loading low density loose or shredded materials such as hay, straw, manure, or silage. Do not use fork for digging rocks, roots, or excavating. An optional grapple fork is available to help hold hay, straw, manure, and silage on the forks for loading.

ATTACHING MANURE FORK TO SKID STEER

WARNING

■ **Be sure attachment is properly secured, adjusted, and in good operating condition. Coupler lockpins must be fully extended and properly engaged into attachment retaining slots.**

Read the skid steer operator's manual connecting and removing instructions.

The skid steer coupler handles should be in the unlocked position and the lockpins retracted, Figure 1.

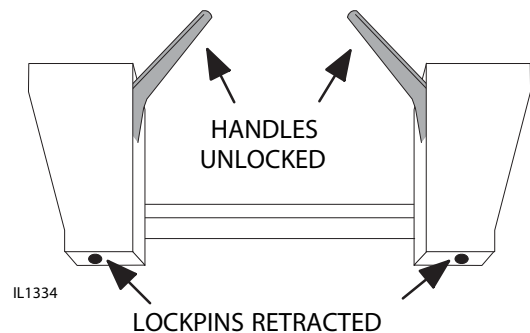


Figure 1. Skid Steer Coupler Handles - Unlocked

Move to the skid steer operator seat, fasten seat belt, engage operator restraint, and start engine.

Lower skid steer lift arms to their lowest position.

Carefully move and align the skid steer coupler to the manure fork. The top of the skid steer coupler must index into the manure fork flange, Figure 2.

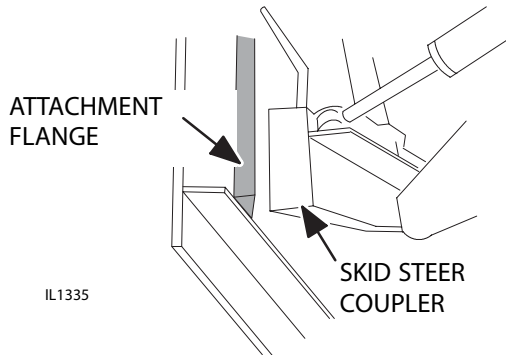


Figure 2. Attaching Manure Fork to Skid Steer

Roll the skid steer coupler into the manure fork flange so the coupler handles can be engaged.

Shut off the engine, set brake, remove key, remove seat belt, and release operator restraint. Dismount the skid steer.

Move the skid steer coupler handles to the locked position. The lockpins must be completely extended and secured into the retaining slots provided on the manure fork, Figure 3 and Figure 4.

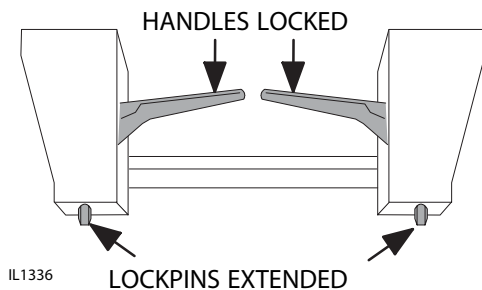


Figure 3. Skid Steer Coupler Handles - Locked

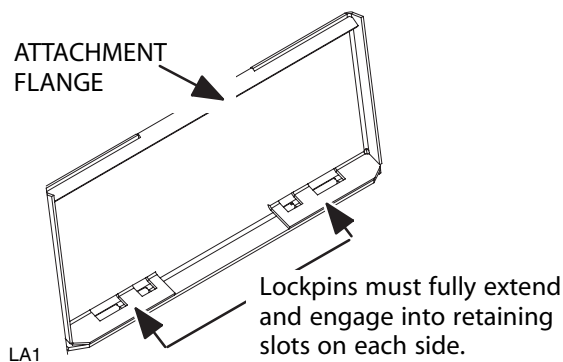


Figure 4. Retaining Slot Locations - Back View of Attachment

PRE-OPERATION CHECK LIST

(OWNER'S RESPONSIBILITY)

- Review and follow all safety rules and safety decal instructions on page 3 through 6.
- Check that all safety decals are installed and in good condition. Replace if damaged.
- Check that all shields and guards are properly installed and in good condition. Replace if damaged.
- Check that all hardware and cotter pins are properly installed and secured.
- Check that equipment is properly and securely attached to skid steer.
- Consult local utilities before digging. Know location of and avoid contacting all underground cables, pipelines, overhead wires and other hazards in digging area.
- Do not allow riders.
- Check and keep all bystanders away from equipment working area.
- Check all lubrication points and grease as instructed in "Service, lubrication information."
- Check that all hydraulic hoses and fittings are in good condition and not leaking before starting skid steer. Check that hoses are not twisted, bent sharply, kinked, frayed or pulled tight. Replace any damaged hoses immediately.
- Make sure skid steer ROPS and seat belt are in good condition. Keep seat belt securely fastened during operation.

OPERATING MANURE FORK

Operators using the manure fork must not exceed the skid steer operating capacity. The density of loose material is variable and care must be used to prevent overloading the skid steer. When loading dense or wet material, reduce the amount of material carried on the forks. Lift and carry loads uniformly on the forks to prevent fork tine damage.

Use forks as required for the material to be moved. Optional fork tines, providing 4-1/8" spacing, may be needed for handling finely chopped material like silage or wood shavings. Do not operate with fork tines spaced wider than 8-1/4", damage to the forks may result.

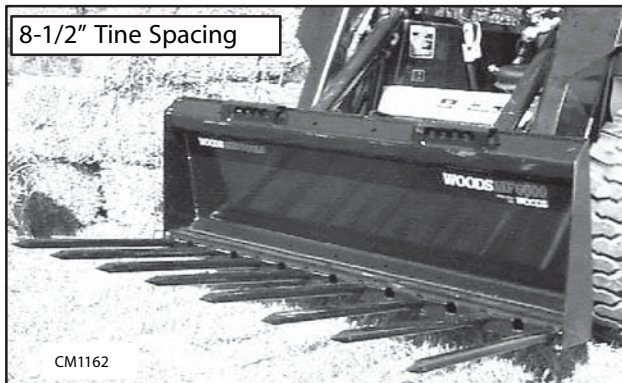


Figure 5. Manure Fork

Transporting Loads

WARNING

- **Improper operation can cause the machine to tip or roll over and cause injury or death.**
 - Keep power unit lift arms and attachment as low as possible.
 - Do not travel or turn with power unit lift arms and attachment raised.
 - Turn only on level ground.
 - Go up and down slopes, not across them.
 - Keep the heavy end of the machine uphill.
 - Do not overload the machine.
- **Never use attachment to carry loads that exceed the rated operating capacity or other specifications of the power unit. Check your power unit manual or see your dealer for rated operating capacity. Exceeding this capacity can cause machine to tip, roll over, or present other hazards that can cause injury or death.**

Always follow safety rules, carry low to ground, and travel slowly.

Only raise a load when dumping.

Dumping Loads

WARNING

- **Only raise load to dump.**
 - Only raise to required height on firm, level surface.
 - Never dump under or around overhead power lines.
 - Keep attachment positioned forward so that accidental spillage falls away from operator enclosure.

■ AVOID INJURY OR DEATH FROM FALLING OBJECTS:

- Do not carry shiftable items. Hay bales, logs, fence posts, stones, and other objects can roll or fall from a raised attachment and crush operator or bystanders.
- This unit is not equipped with any method to prevent objects such as round bales, posts, or logs from rolling back onto operator.
- Do not handle round hay bales.
- Carry loads low and drive slowly.
- Do not carry large objects that can fall out of attachment into operator zone.
- Never lift load higher than necessary to clear the ground when moving.

Transport to dumping location before raising. Only dump load when on a firm level surface.

Slowly raise load to required dumping height. Position bucket, rotate manure fork forward and release load. While raising carefully, observe and keep rotation of manure fork slightly forward so that any accidental spillage will fall forward and away from operator's cab.

GRAPPLE OPERATING INSTRUCTIONS (OPTIONAL)

The grapple fork is an optional device to clamp loose hay, straw, or silage to the manure fork. It is not to be used to dig material loose from a pile.

Make sure the grapple is holding the load securely so it cannot roll backwards or sideways.

Dumping Loads with Optional Grapple

When grapple is attached to fork, use care when dumping into trucks, wagons, spreaders, etc. Open grapple teeth will swing beyond fork and can damage the opposite side of implement, out of the operator's sight.

REMOVING FROM SKID STEER

On a hard level surface, lower attachment to the ground. If equipped with optional grapple, lower grapple to the ground also.

Shut off engine, set brake, and remove key before leaving the skid steer operator's seat.

Move skid steer coupler handles to the unlocked position (lockpins must be disengaged).

If equipped with optional grapple, disconnect hydraulic hoses from quick couplers. Install dust plugs and couple hoses together for storage.

Move to skid steer operator seat and start engine.

Release brake and roll skid steer coupler until it is disengaged from the attachment. The attachment should be placed in storage position.

STORAGE



WARNING

- Follow manual instructions for storage.



CAUTION

- Keep children and bystanders away from storage area.

Inspect fork and grapple for damage or missing parts. Fork should rest flat on the tines for storage with grapple completely lowered.

CLEANING

After Each Use

- Remove large debris such as clumps of dirt, grass, crop residue, etc. from machine.
- Inspect machine and replace worn or damaged parts.
- Replace any safety decals that are missing or not readable.

Periodically or Before Extended Storage

- Clean large debris such as clumps of dirt, grass, crop residue, etc. from machine.
- Remove the remainder using a low-pressure water spray.
 1. Be careful when spraying near scratched or torn safety decals or near edges of decals as water spray can peel decal off surface.
 2. Be careful when spraying near chipped or scratched paint as water spray can lift paint.
 3. If a pressure washer is used, follow the advice of the pressure washer manufacturer.
- Inspect machine and replace worn or damaged parts.
- Sand down scratches and the edges of areas of missing paint and coat with Woods spray paint of matching color (purchase from your Woods dealer).
- Replace any safety decals that are missing or not readable (supplied free by your Woods dealer). See Safety Decals section for location drawing.

OWNER SERVICE

The information in this section is written for operators who possess basic mechanical skills. Should you need help, your dealer has trained service technicians available. For your protection, read and follow all safety information in this manual.



WARNING

■ **Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.**

■ **Make sure shields and guards are properly installed and in good condition. Replace if damaged.**

■ **NEVER GO UNDERNEATH EQUIPMENT.** Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak-down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

- Service work does not require going underneath.
- Read Operator's Manual for service instructions or have service performed by a qualified dealer.

■ **Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.**

■ **Keep all persons away from operator control area while performing adjustments, service, or maintenance.**

■ **Do not disconnect hydraulic lines until machine is securely blocked or placed in lowest position and system pressure is released by operating valve levers.**



CAUTION

■ **If you do not understand any part of this manual and need assistance, see your dealer.**

■ **Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective**

equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

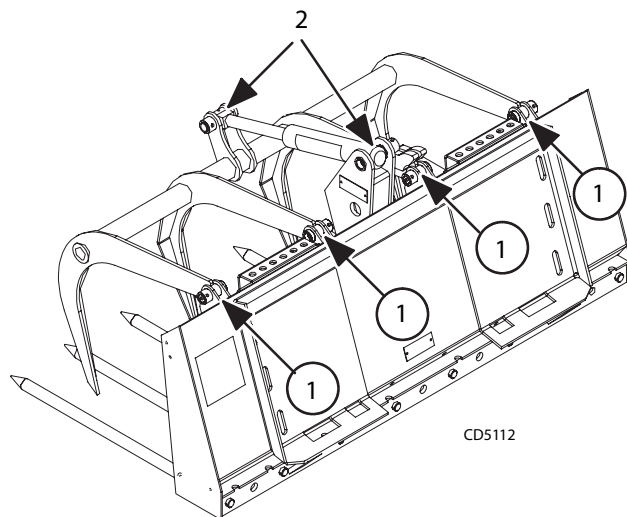
■ **Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.**

LUBRICATION (FIGURE 6)

Do not let excess grease collect on or around parts, particularly when operating in sandy areas.

Figure 6 shows the lubrication points. The accompanying chart gives the frequency of lubrication in operating hours based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication. Some reference numbers have more than one location; be sure you lubricate all locations.

Use a lithium grease of #2 consistency with a MOLY (molybdenum disulfide) additive for all locations, unless otherwise noted. Be sure to clean fittings thoroughly before attaching grease gun. When applied according to the lubrication chart, one good pump of most guns is sufficient.



Ref #	Location	Frequency
1	Grapple Fork Hinge Pins	Every 8 Hours Daily
2	Cylinder Pivot Pins	Every 8 Hours Daily

Figure 6. Lubrication

ASSEMBLY

Refer to parts drawing on page 14 when following assembly instructions.

MANURE FORK (OPTIONAL TINES)

Using a suitable hoist, support the fork main frame in an upright position.

Insert fork tine (11) in mounting hole nearest the edge of the main frame until shoulder bottoms against the frame. Retain with cotter pin (15).

Standard fork tines provide 8-1/4" spacing. Optional fork tines provide 4-1/8" spacing.

Space forks evenly in mounting holes. Use forks as required for the material to be moved. Optional fork tines may be needed for handling finely chopped material like silage or wood shavings. Do not operate with fork tines spaced wider than 8-1/4", damage to the forks may result.

GRAPPLE (OPTIONAL)

The GF3000 grapple fork fits all MF6000, MF6600, and MF7200 manure forks. To attach, remove footsteps (9) from manure fork main frame.

Attach backing plate (3) to forks main frame, using ten cap screws (25), washers (24), and nuts (23). Footsteps (9) must be re-installed in their previous locations.

Install base end of hydraulic cylinder (7) to backing plate (3) using pin (8). Secure with cap screw (20) and nut (19).

Install rod end of hydraulic cylinder (7) to grapple fork (1) using pin (2). Secure with cap screw (20) and nut (19).

Assemble adapter (6) to short end of hydraulic line (5).

Connect long end of hydraulic line (5) to base of hydraulic cylinder (7).

Attach hose guide (10) to left loader boom, using cap screws (22), washers (21), and nut (19).

Attach one hydraulic hose to adapter fitting and the other hydraulic hose to the rod end port of hydraulic cylinder. Attach 90° elbows with hydraulic quick couplers to grapple hydraulic hoses. Hydraulic quick couplers are not furnished and must be obtained from your skid steer dealer.

Route hoses through hose guide so that they will not be pinched or damaged during operation.

Tighten all cap screws according to specifications given in Bolt Torque Chart, page 16.

See the skid steer operator manual for proper auxiliary hydraulic connection and operating instructions.

Before connecting grapple to your skid steer, purchase correct manufacturer's hose kit from your dealer. Hydraulic hoses must have protective hose sleeves for operator protection in the event of hydraulic hose leak or failure.

DEALER CHECK LISTS

PRE-DELIVERY CHECK LIST

(Dealer's responsibility)

Inspect the equipment thoroughly after assembly to ensure it is set up properly before delivering it to the customer.

The following check lists are a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

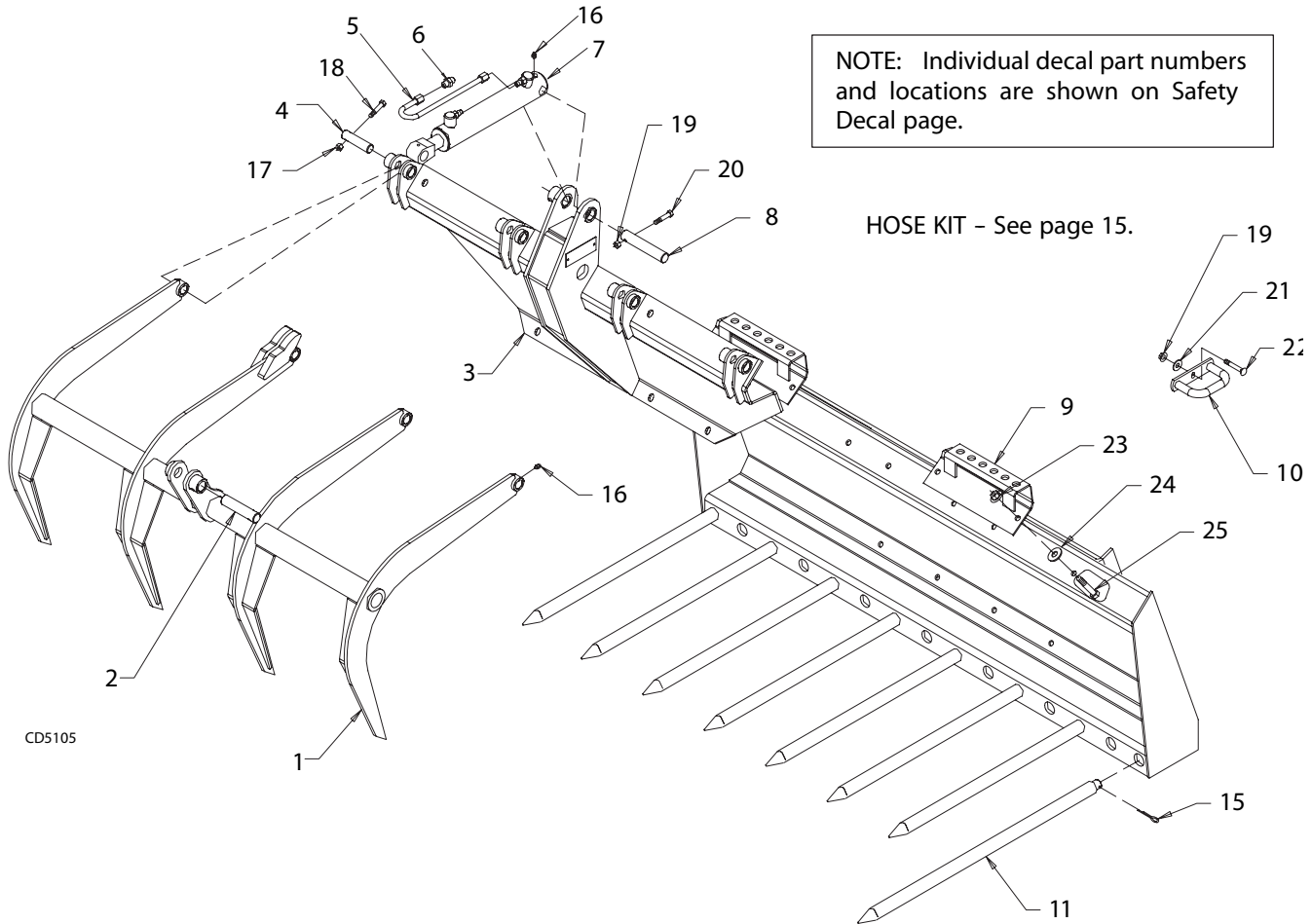
- ___ Check that all safety decals are installed and in good condition. Replace if damaged.
- ___ Check that shields and guards are properly installed and in good condition. Replace if damaged.
- ___ Check all bolts to be sure they are tight.
- ___ Check that all cotter pins and safety pins are properly installed. Replace if damaged.
- ___ Check and grease all lubrication points as identified in "Service, lubrication information."

DELIVERY CHECK LIST

(Dealer's Responsibility)

- ___ Show customer how to make adjustments.
- ___ Instruct customer how to lubricate and explain importance of lubrication.
- ___ Point out the safety decals. Explain their meaning and the need to keep them in place and in good condition. Emphasize the increased safety hazards when instructions are not followed.
- ___ Present Operator's Manual and request that customer and all operators read it before operating equipment. Point out the manual safety rules, explain their meanings and emphasize the increased safety hazards that exist when safety rules are not followed.
- ___ Explain to customer the potential crushing hazards of going underneath raised equipment. Instruct customer that service work does not require going underneath unit and never to do so.
- ___ Show customer the safe, proper procedures to be used when mounting, dismounting, and storing equipment.
- ___ Explain to customer that when equipment is transported on a road or highway, safety devices should be used to give adequate warning to operators of other vehicles.
- ___ Make customer aware of optional equipment available so that customer can make proper choices as required.
- ___ Point out all guards and shields. Explain their importance and the safety hazards that exist when not kept in place and in good condition.

MF6000, MF6600, MF7200 & GF3000 PARTS LIST



REF	PART	QTY	DESCRIPTION
-----	------	-----	-------------

1	54535	1	Grapple fork
2	56579	1	1.000 Dia. x 4.38 Clevis pin
3	54536	1	Grapple backing plate
4	54748	4	.875 Dia. x 3.50 Clevis pin
5	54503	1	Hydraulic tube line
6	54508	1	9/16" Adapter
7	56584	1	2.00 x 7.875 Hydraulic cylinder
7A	1009060	1	Cylinder seal kit
8	54746	1	1.000 Dia. x 5.50 Clevis pin
9	54517	2	Foot step
10	54529	1	Hose guide
11	52664	A/R	1.25 Dia. x 32.25 Tine
15	2452	-	3/16 x 2-1/2 Cotter pin
16	12296	-	1/4 - 28 Straight grease fitting
17	14139	-	5/16 NC Hex locknut
18	7164	-	5/16 NC x 2-1/4 HHCS GR5
19	6698	-	3/8 NC Hex locknut
20	3231	-	3/8 NC x 2 HHCS GR5

REF	PART	QTY	DESCRIPTION
-----	------	-----	-------------

21	565	-	3/8 Standard flat washer
22	90001703	-	3/8 NC x 3 Carriage bolt
22	90001705	-	3/8 NC x 3-1/2 Carriage bolt
22	90001708	-	3/8 NC x 4-1/2 Carriage bolt
23	11900	10	1/2 NC Flange locknut
24	854	10	1/2 Standard flat washer
25	6100	10	1/2 NC x 1-1/4 HHCS GR5
26	54808	1	Decal set

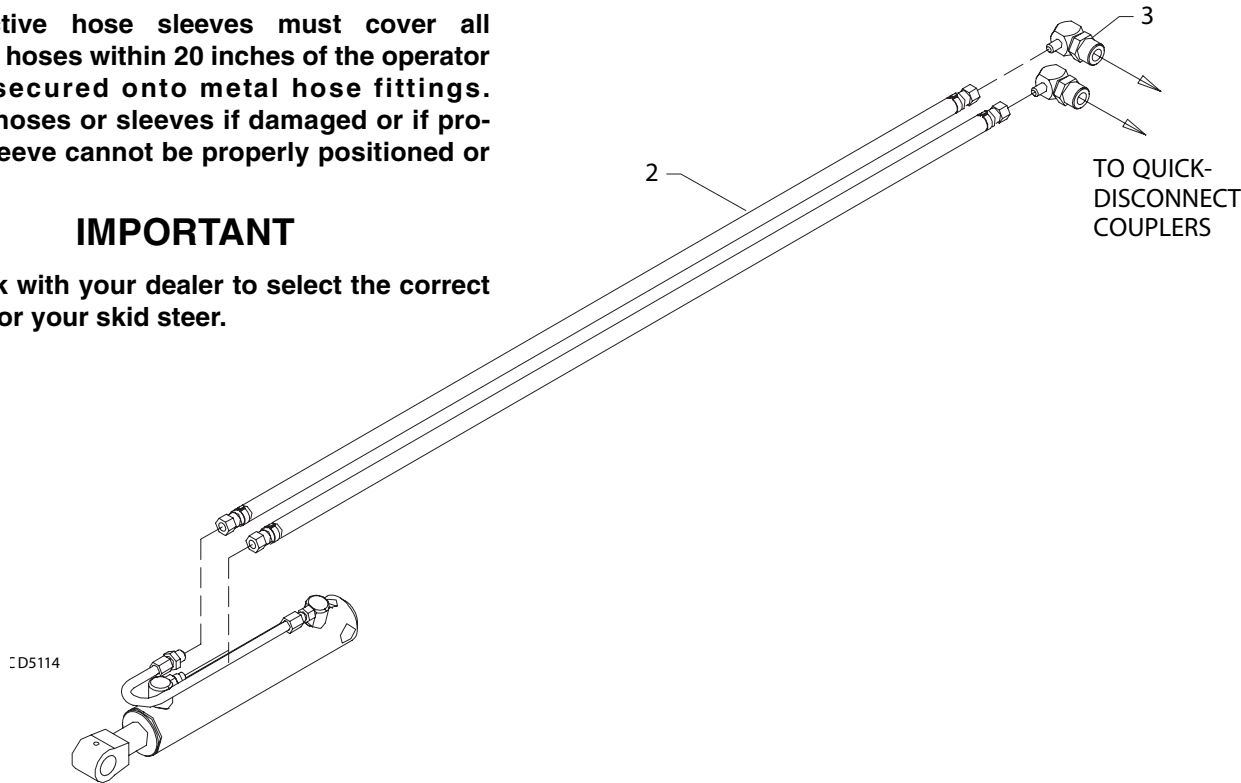
HOSE KIT

WARNING

■ Protective hose sleeves must cover all hydraulic hoses within 20 inches of the operator and be secured onto metal hose fittings. Replace hoses or sleeves if damaged or if protective sleeve cannot be properly positioned or secured.

IMPORTANT

■ Check with your dealer to select the correct hose kit for your skid steer.



REF	PART	QTY	DESCRIPTION
1	54401	1	Hose kit - 4 ft
1	54402	1	Hose kit - 5 ft
1	54403	1	Hose kit - 6 ft
2	56678	2	Hose, 1/4 x 48" x 9/16 JICF x 9/16 JICF with protective sleeve
2	56679	2	Hose, 1/4 x 60" x 9/16 JICF x 9/16 JICF with protective sleeve
2	56680	2	Hose, 1/4 x 72" x 9/16 JICF x 9/16 JICF with protective sleeve
3	54898	2	90° Fitting, 9/16 JICM x 3/4 SAE

BOLT TORQUE CHART

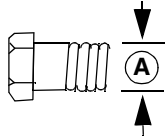
Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

Fasteners must always be replaced with the same grade as specified in the manual parts list.

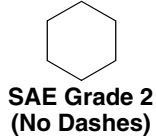
Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for metric hardware.

Make sure fastener threads are clean and you start thread engagement properly.

All torque values are given to specifications used on hardware defined by SAE J1701 & J1701M JUL96.



SAE SERIES TORQUE CHART



SAE Bolt Head
Identification

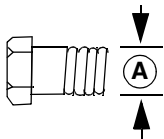


SAE Grade 5
(3 Radial Dashes)

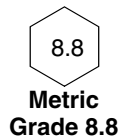


SAE Grade 8
(6 Radial Dashes)

A Diameter (Inches)	Wrench Size	MARKING ON HEAD					
		SAE 2		SAE 5		SAE 8	
		lbs-ft	N-m	lbs-ft	N-m	lbs-ft	N-m
1/4"	7/16"	6	8	10	13	14	18
5/16"	1/2"	12	17	19	26	27	37
3/8"	9/16"	23	31	35	47	49	67
7/16"	5/8"	36	48	55	75	78	106
1/2"	3/4"	55	75	85	115	120	163
9/16"	13/16"	78	106	121	164	171	232
5/8"	15/16"	110	149	170	230	240	325
3/4"	1-1/8"	192	261	297	403	420	569
7/8"	1-5/16"	306	416	474	642	669	907
1"	1-1/2"	467	634	722	979	1020	1383



METRIC SERIES TORQUE CHART



Metric
Grade 8.8

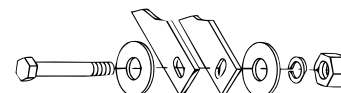
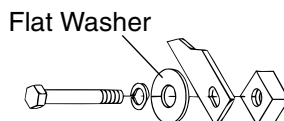
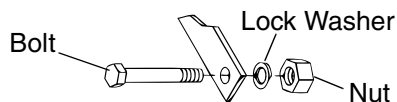
Metric Bolt Head
Identification



Metric
Grade 10.9

Ⓐ Diameter & Thread Pitch (Millimeters)	Wrench Size	COARSE THREAD				FINE THREAD				Ⓐ Diameter & Thread Pitch (Millimeters)
		MARKING ON HEAD				MARKING ON HEAD				
		Metric 8.8		Metric 10.9		Metric 8.8		Metric 10.9		
		N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft	
6 x 1.0	10 mm	8	6	11	8	8	6	11	8	6 x 1.0
8 x 1.25	13 mm	20	15	27	20	21	16	29	22	8 x 1.0
10 x 1.5	16 mm	39	29	54	40	41	30	57	42	10 x 1.25
12 x 1.75	18 mm	68	50	94	70	75	55	103	76	12 x 1.25
14 x 2.0	21 mm	109	80	151	111	118	87	163	120	14 x 1.5
16 x 2.0	24 mm	169	125	234	173	181	133	250	184	16 x 1.5
18 x 2.5	27 mm	234	172	323	239	263	194	363	268	18 x 1.5
20 x 2.5	30 mm	330	244	457	337	367	270	507	374	20 x 1.5
22 x 2.5	34 mm	451	332	623	460	495	365	684	505	22 x 1.5
24 x 3.0	36 mm	571	421	790	583	623	459	861	635	24 x 2.0
30 x 3.0	46 mm	1175	867	1626	1199	1258	928	1740	1283	30 x 2.0

Typical Washer Installations



8/9/00

BOLT SIZE CHART

NOTE: Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE and metric bolts.

SAE Bolt Thread Sizes

5/16

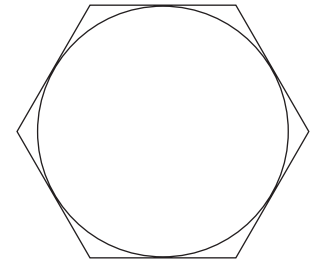
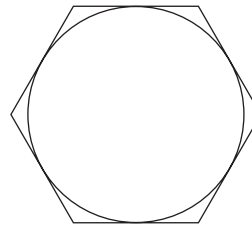
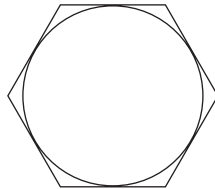
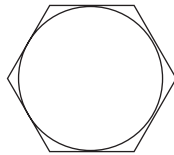
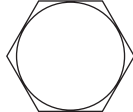
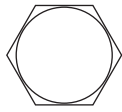
3/8

1/2

5/8

3/4

7/8



IN

1

2

3

4

5

6

7



MM

25

50

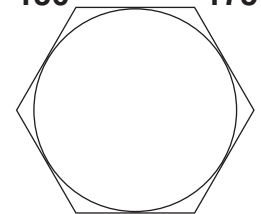
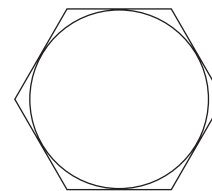
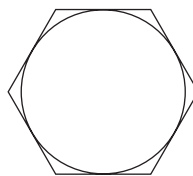
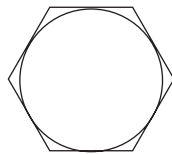
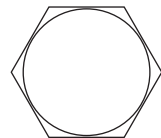
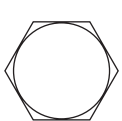
75

100

125

150

175



Metric Bolt Thread Sizes

8MM

10MM

12MM

14MM

16MM

18MM

ABBREVIATIONS

AG Agriculture
 ATF.....Automatic Transmission Fluid
 BSPP British Standard Pipe Parallel
 BSPTM.....British Standard Pipe Tapered Male
 CV Constant Velocity
 CCW Counter-Clockwise
 CW Clockwise
 F..... Female
 GA..... Gauge
 GR (5, etc.) Grade (5, etc.)
 HHCS.....Hex Head Cap Screw
 HT Heat-Treated
 JIC..... Joint Industry Council 37° Degree Flare
 LH Left Hand
 LT Left
 m Meter
 mm Millimeter
 M Male
 MPa.....Mega Pascal
 N Newton

NC National Coarse
 NF National Fine
 NPSM..... National Pipe Straight Mechanical
 NPT National Pipe Tapered
 NPT SWF National Pipe Tapered Swivel Female
 ORBM O-Ring Boss - Male
 P Pitch
 PBY Power-Beyond
 psi Pounds per Square Inch
 PTO Power Take Off
 QD..... Quick Disconnect
 RH Right Hand
 ROPS..... Roll-Over Protective Structure
 RPM Revolutions Per Minute
 RT Right
 SAE..... Society of Automotive Engineers
 UNC Unified Coarse
 UNF..... Unified Fine
 UNS Unified Special



WARRANTY

(Replacement Parts For All Models Except Mow'n Machines)

WEC Company, d/b/a Woods Equipment Company ("WOODS"), warrants this product to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the product to the original purchaser with the exception of V-belts, which will be free of defect in material and workmanship for a period of 12 months.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. **The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.** WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

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This Warranty is subject to any existing conditions of supply which may directly affect WOODS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, service person, salesperson, or employee of any company, including without limitation, WOODS, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

Answers to any questions regarding warranty service and locations may be obtained by contacting:

Woods Equipment Company

2606 South Illinois Route 2
Post Office Box 1000
Oregon, Illinois 61061

815-732-2141 tel
815-732-7580 fax
www.WoodsEquipment.com

WOODS®

**ALITEC
ALLOWAY
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CENTRAL FABRICATORS
GANNON
GILL
WAIN-ROY
WOODS**



WARRANTY

(All Models Except Mow'n Machines)

Please Enter Information Below and Save for Future Reference.

Date Purchased: _____

From (Dealer): _____

Model Number: _____

Serial Number: _____

WEC Company, d/b/a Woods Equipment Company ("WOODS"), warrants this product to be free from defect in material and workmanship. Except as otherwise set forth below, the duration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

The warranty periods for certain gearboxes are listed below:

Model No.	Part Warranted	Duration
PHD25, PHD35, PHD65, PHD95, 1260, 2120, 2162, 3180, 3240, BB600, BB720, BB840, BB6000, BB7200, BB8400, BW180, RM550-2, RM660-2, RM990-3, RD6000-2, RD7200-2, RD8400-2, 7144RD-2, 9180RD-2, 9204RD-2	Gearbox components	5 years from the date of delivery to the original purchaser.
BB48, BB60, BB72, BB84, RCC42	Gearbox components	3 years from the date of delivery to the original purchaser.
BW180	Gearbox components	1 year from the date of delivery to the original purchaser if used in rental or commercial applications.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than WOODS, a WOODS authorized dealer or distributor, and/or a WOODS authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through WOODS.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

WOODS makes no warranty, express or implied, with respect to engines, batteries, tires or other parts or accessories not manufactured by WOODS. Warranties for these items, if any, are provided separately by their respective manufacturers.

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. **The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.** WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

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This Warranty is subject to any existing conditions of supply which may directly affect WOODS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, WOODS, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

Answers to any questions regarding warranty service and locations may be obtained by contacting:

**ALITEC
ALLOWAY
BMP
CENTRAL FABRICATORS
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